

FIG. 1

100

102 RECEIVE AN INPUT ORDER MESSAGE (E.G., ORDER STATUS INQUIRY) OVER A NETWORK, INCLUDING A DOCUMENT ORGANIZED IN A PREDEFINED FORMAT (E.G., XML DOCUMENT).



104 OBTAIN A DATA SET (E.G., ORDER NUMBER AND CUSTOMER ID) FROM THE INPUT ORDER MESSAGE BY USING THE PREDEFINED FORMAT OF THE DOCUMENT IN THE INPUT ORDER MESSAGE.



106 OBTAIN A RESULTING OUTPUT DATA SET (E.G., ORDER STATUS AND LOCATION) BY PROCESSING THE DATA SET OBTAINED FROM THE INPUT ORDER MESSAGE.



108 PROVIDE OVER THE NETWORK THE OUTPUT DATA SET IN A RESPONSE MESSAGE (I.E., OUTPUT MESSAGE) INCLUDING AN OUTPUT DOCUMENT ORGANIZED IN A PREDEFINED FORMAT (E.G., XML FORMAT) SUITABLE FOR USE BY AN ORDERING APPLICATION.

FIG. 2

FIG. 3

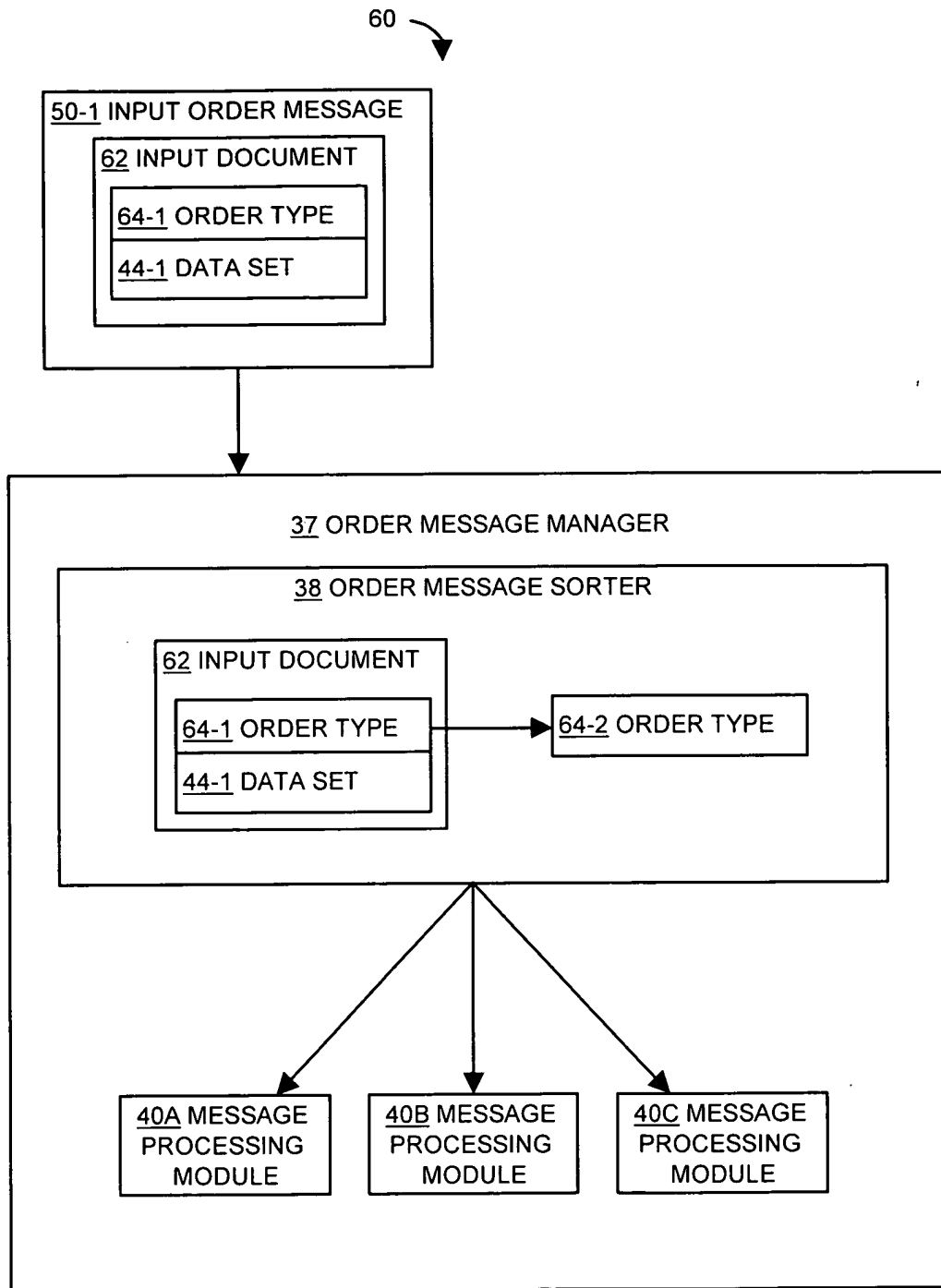


FIG. 3

70

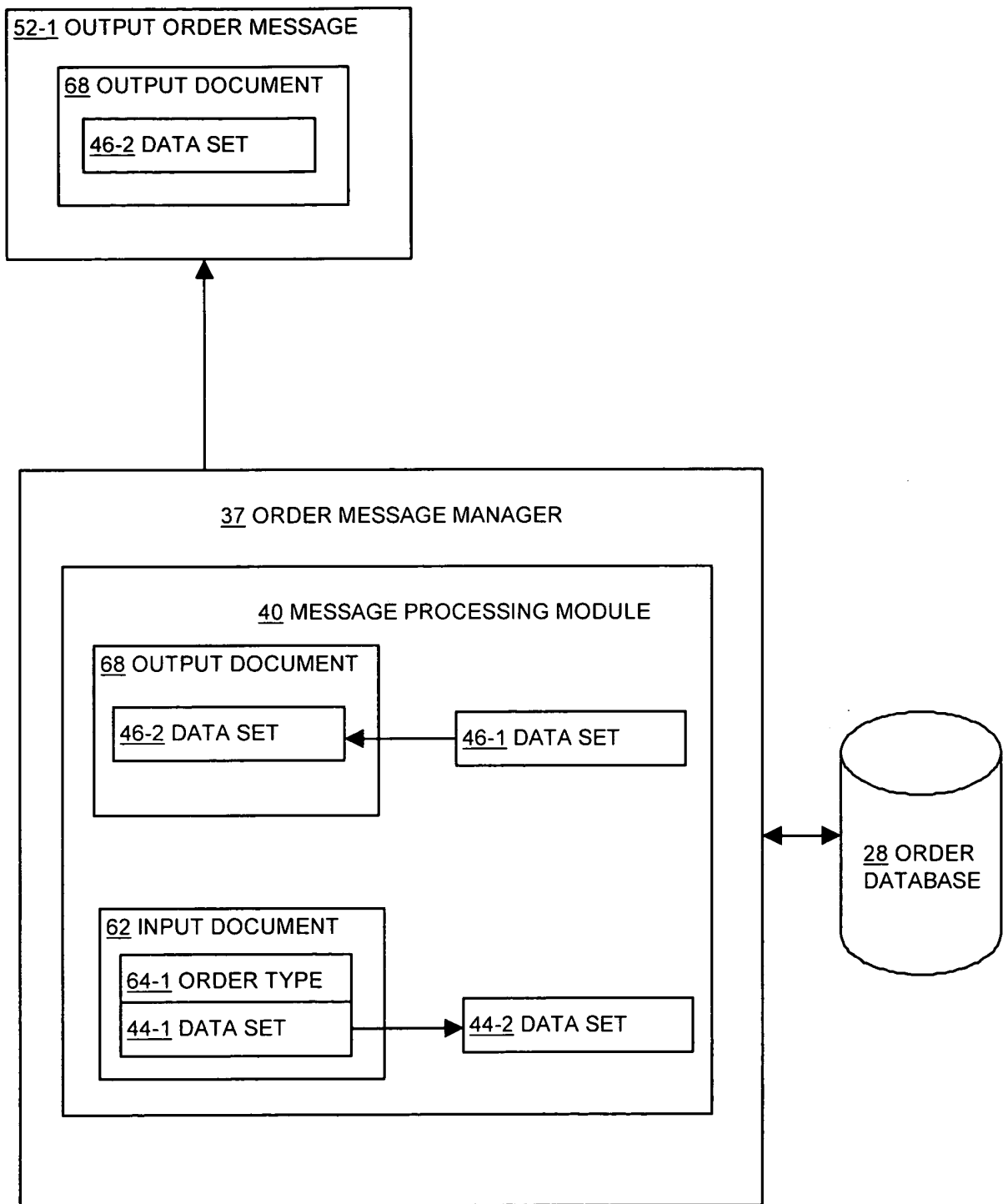


FIG. 4

200

202 RECEIVE AN INPUT ORDER MESSAGE OVER THE NETWORK THAT INCLUDES AN INPUT DOCUMENT (E.G., STATUS INQUIRY FROM A CLIENT).

204 PARSE THE INPUT DOCUMENT TO DETERMINE THE ORDER TYPE (E.G., STATUS INQUIRY) FOR THE INPUT DOCUMENT AND THE ORDERING FUNCTION (E.G., CHECK STATUS FUNCTION) INDICATED BY THE ORDER TYPE.

206 SELECT A MESSAGE PROCESSING MODULE (E.G., STATUS MODULE) TO PROCESS THE INPUT DOCUMENT FOR THE ORDERING FUNCTION INDICATED BY THE ORDER TYPE (E.G., CHECK STATUS FUNCTION).

208 TRANSFER THE INPUT DOCUMENT TO THE MESSAGE PROCESSING MODULE (E.G., STATUS MODULE) SELECTED TO PROCESS THE INPUT DOCUMENT.

210 PARSE THE INPUT DOCUMENT TO OBTAIN THE INPUT DATA SET (E.G., CUSTOMER ID AND ORDER NUMBER) FROM THE INPUT DOCUMENT.

212 PROCESS THE INPUT DATA SET BASED ON THE ORDERING FUNCTION INDICATED BY THE ORDER TYPE.

214 OBTAIN DATA FOR AN OUTPUT DATA SET (E.G., CURRENT STATUS OF THE ORDER) AND PREPARE AN OUTPUT DOCUMENT INCLUDING THE OUTPUT DATA SET.

216 SEND OUT AN OUTPUT ORDER MESSAGE INCLUDING THE OUTPUT DOCUMENT AND OUTPUT DATA SET (E.G., SEND STATUS INFORMATION TO THE CLIENT).

FIG. 5

300-1



```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE AbcXML SYSTEM "http://www.abc-
company.com/xxx/AbcXML/1.0/AbcXML.dtd">
<AbcXML>
  <Header>
    <From>
      <Identity domain="XYZ">
        <XYZ>000000001</XYZ>
      </Identity>
    </From>
    <To>
      <Identity domain="XYZ">
        <XYZ>000000003</XYZ>
      </Identity>
    </To>
  </Header>
```

302

304

306

FIG. 6A

300-2

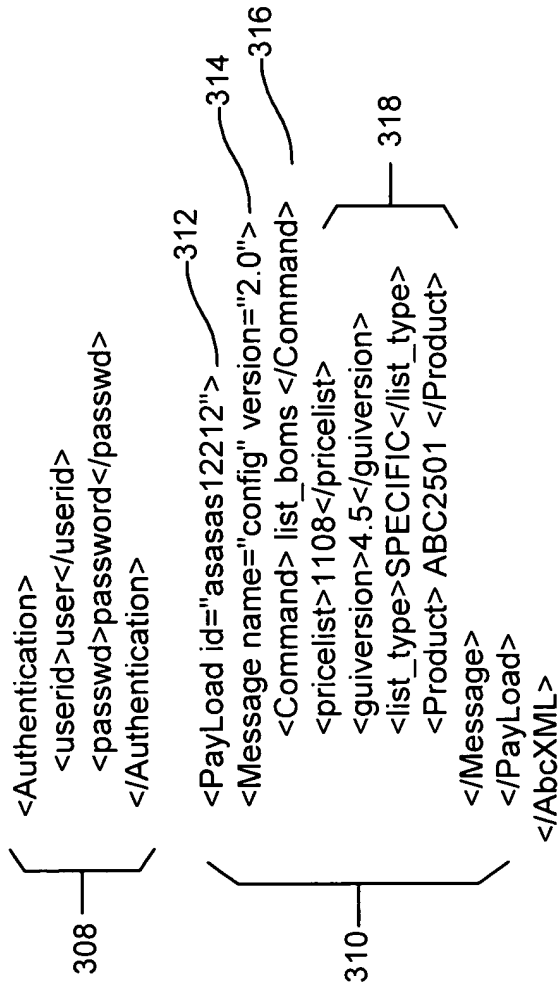


FIG. 6B

330-1



```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE AbcXML SYSTEM "http://www.abc-
company.com/xxx/AbcXML/1.0/AbcXML.dtd">
<AbcXML>
  <Header>
    <From>
      <Identity domain="XYZ">
        <XYZ>000000003</XYZ>
      </Identity>
    </From>
    <To>
      <Identity domain="XYZ">
        <XYZ>000000001</XYZ>
      </Identity>
    </To>
  </Header>
```

332

FIG. 7A

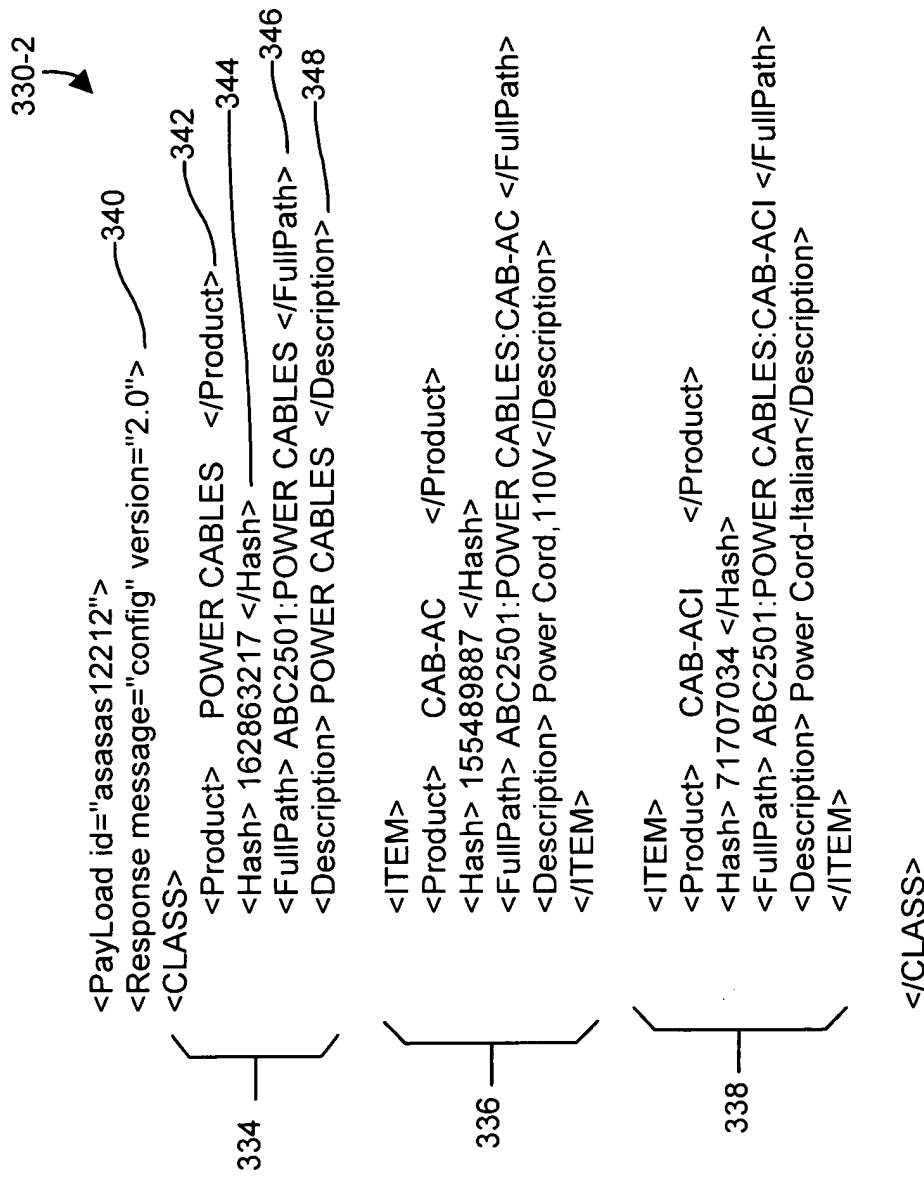


FIG. 7B

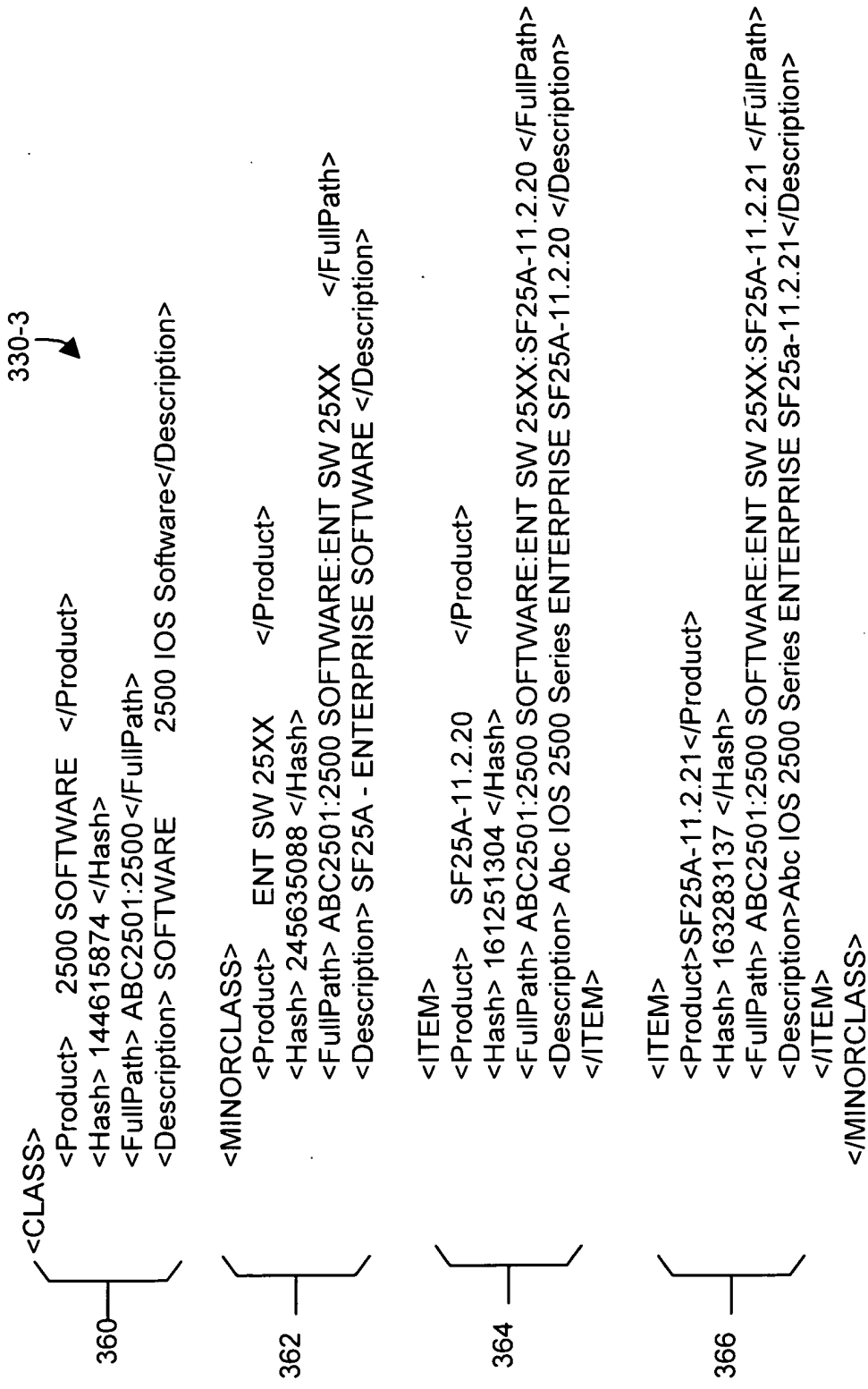


FIG. 7C

330-4

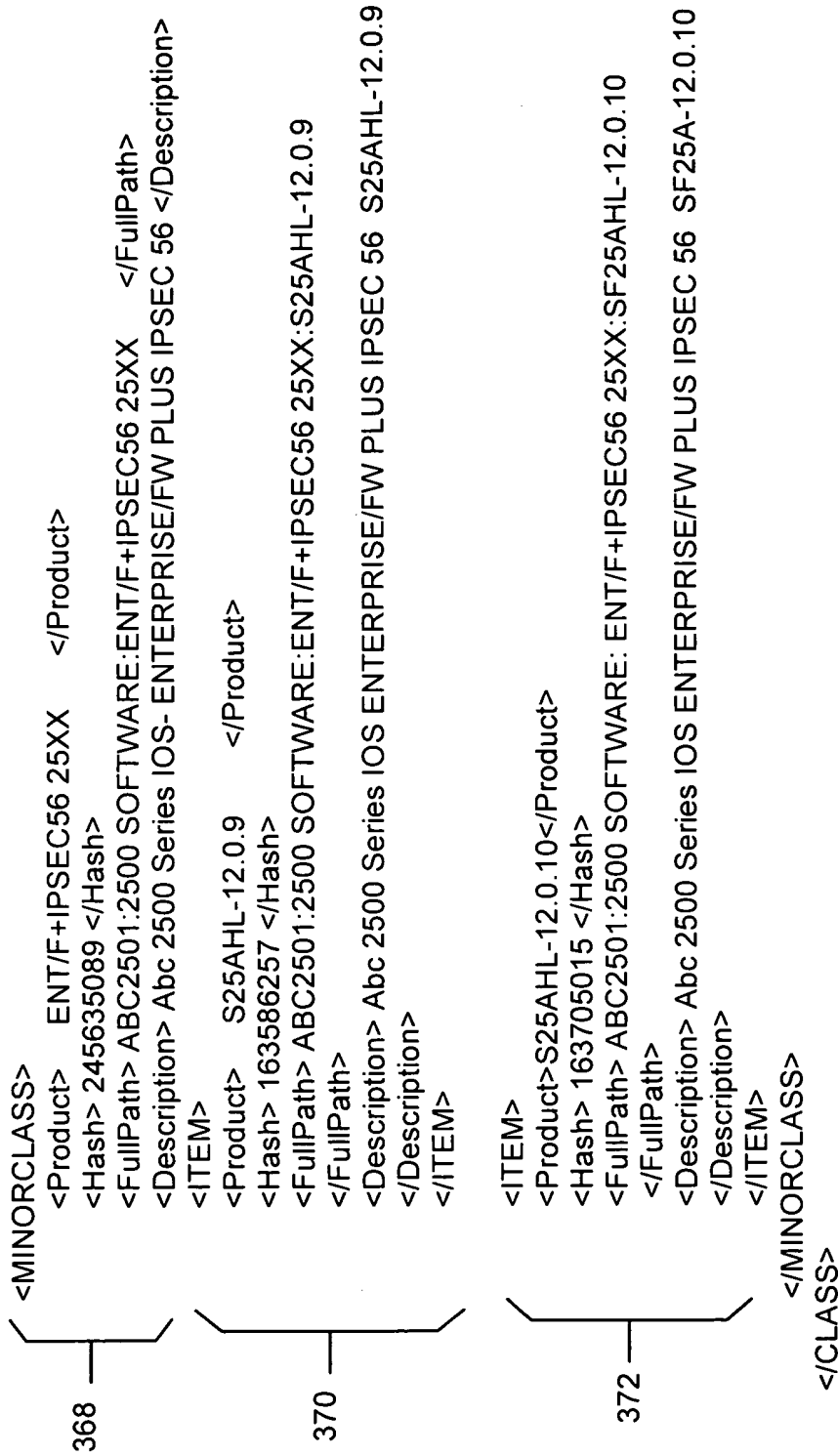


FIG. 7D

330-5

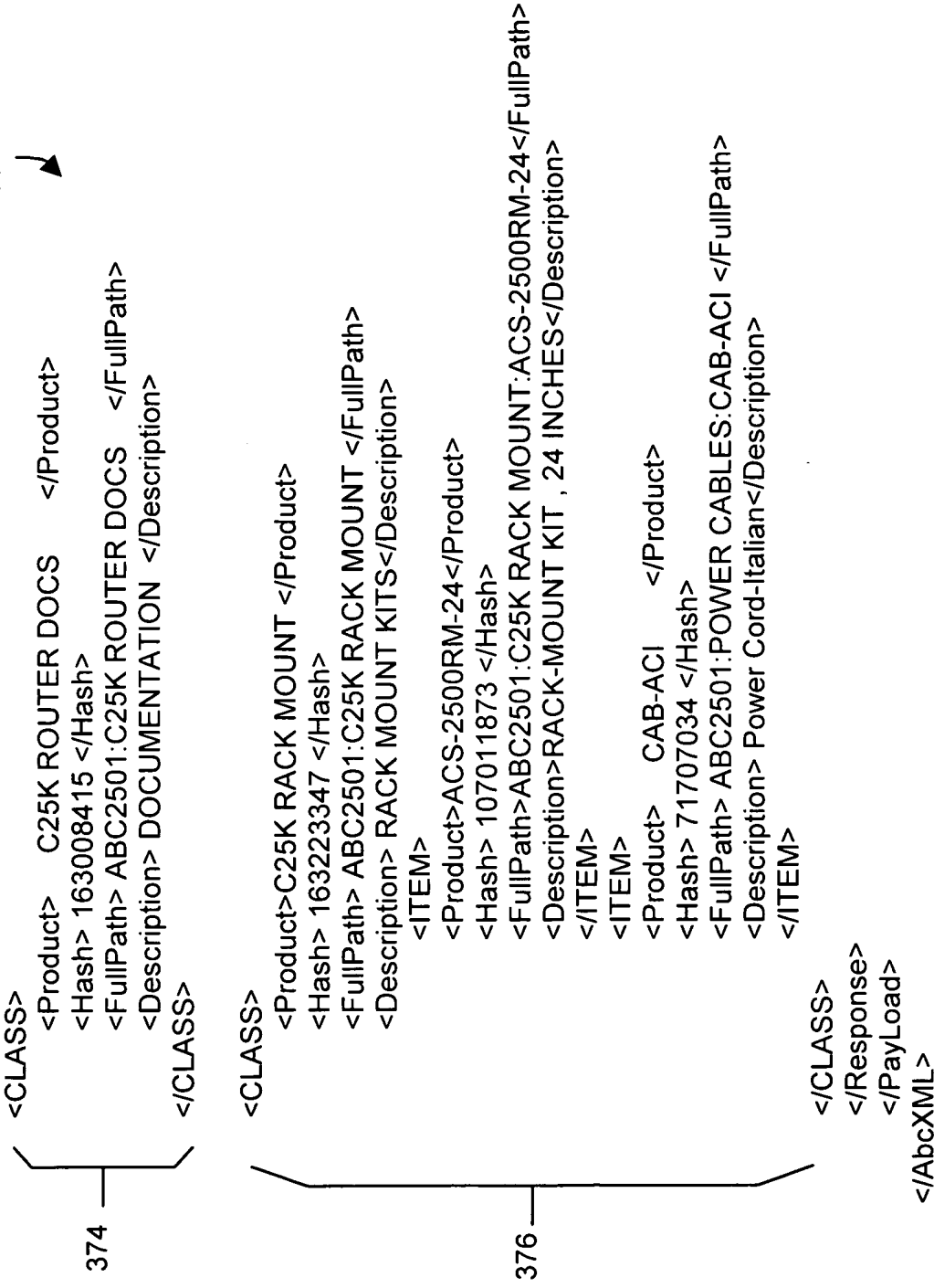


FIG. 7E